

■ Light Indications

Solid red light
(extra bright)
Out of range indicator. Your unit cannot receive RF signal from any unit in the group.
Power on other units, or move closer to each other.

Solid green light
Battery is fully charged

Solid amber light
Battery is being charged

Slow blinking
amber light
1st battery low level warning – Amber light
blinks every 5 seconds.

2nd battery low level warning –Amber light
blinks every 2 seconds.

Then the unit turns off automatically.

■ Specifications

Radio frequency

Unlicensed ISM band
900 MHz (Yapalong4000 AM)
800 MHz (Yapalong4000 EU)

Wireless network

Auto channel selection
no-master TDMA/peer-to-peer

Digital modulation

FSK

No. of channels

3

Range

up to 900 meters line-of-sight

Size

164mm x 64mm x 22mm

Weight

125 grams

Power rating

27 dBm/ 500 mW

Power source

Lithium polymer, 3.7 V, 1700 mAh

Power efficiency

Over 8 hours after being fully
charged

Operating temp
range

-20 °C ~ 50 °C

Noise cancelling

5-level sensitivity adjustment

Safety

Lead free, RoHS compliance

IP rating

IP54, splash proof

Safety Warning!

Don't hold Yapalong too close to your head when in use.

Industry Canada Compliance Statement

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

FCC Information to Users

This equipment has been tested and found to comply with the limits for Class B digital devices, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna;
 - Increase the separation between the equipment and receiver;
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warning: Changes or modifications not expressly approved by Nautic Devices Inc. could void the user's authority to operate the equipment.

For Class B – Unintentional Radiators

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operations.

Yapalong - 4000 AM & EU

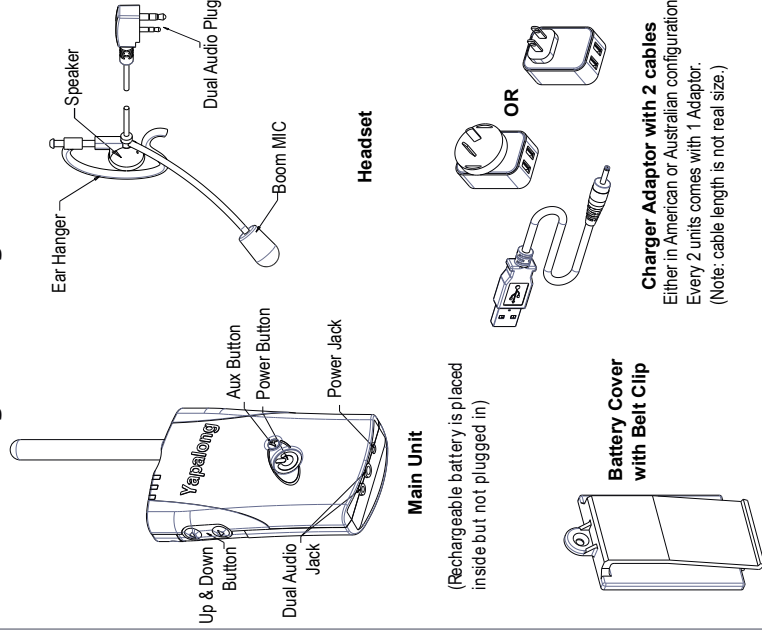
User's Manual

FCC ID: UJW-4000

IC: 6695A-4000

Model: Yapalong4000

You are receiving the following:



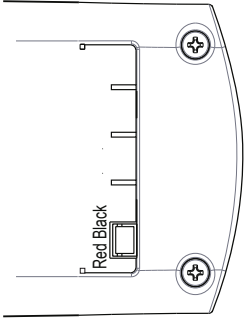
Charger Adaptor with 2 cables.
Either in American or Australian configuration.
Every 2 units comes with 1 Adaptor.
(Note: cable length is not real size.)



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■ **Step 1: Get Started**

1. The rechargeable Lithium polymer battery is pre-installed to comply with the shipping regulations. For future battery replacement, make sure the battery connector is plugged into the socket with the color of the cables matching the polarity “Red Black” shown on the case. For your safety, use only battery provided by Nautic Devices Inc.

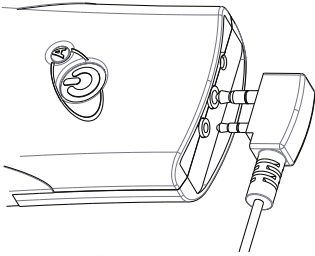


2. Turn Yapalong unit on by holding down POWER button for 2 seconds until RED LED turns on.

3. If the AMBER LED blinks every 2 or 5 seconds or there is no LED light at all, battery needs to be charged. Plug the adaptor to the wall outlet. Plug the barrel connector of the cable into the power charging jack. Turn off the unit during battery charging will speed up the charge time. AMBER LED turns on during charging and GREEN LED turns on when battery is fully charged.

4. If RED LED remains on with high intensity, it means it cannot detect other group unit due to various reasons: no group unit powered on; group unit out of range; unit in different group (refer to “Step2: Binding Procedure” to do grouping).

5. If RED LED remains on with normal intensity, it means it has detected group unit(s). Plug in the headset as show in the figure. The unit is now ready to be used with other powered-on group units.



6. To adjust the sound volume, press UP or DOWN button, repeatedly if necessary, until desired volume is reached. To adjust the microphone sensitivity, while holding down AUX button, press UP or DOWN button, repeatedly if necessary until desired sensitivity is reached. Now Yapalongs let every member in the group talk freely and listen at the same time.

7. To turn Yapalong unit off, hold POWER button 2 seconds until RED LED flashes 3 times. Then the unit powers down.

■ **Step2: Binding Procedure**

Note:

Binding needs to be done under minimum radio interference environment, which means no cellphone, no computer, no Bluetooth, and no electrical control panel nearby.

A. Binding procedure for REGULAR units

1. Power down all units with good batteries installed.
2. Power up 1st unit until RED LED is solid on. Hold down UP and DOWN buttons simultaneously for 3 seconds until GREEN and AMBER LEDs begin to flash alternatively. Release buttons for 5 or more seconds, both LEDs stop blinking and all 3 LEDs remain solid on.
3. Power up 2nd unit until RED LED is solid on. Hold down UP and DOWN buttons simultaneously for 3 seconds until GREEN and AMBER LEDs begin to flash alternatively. Release buttons for 5 or more seconds, both LEDs stop blinking and only RED and GREEN remain solid on. If AMBER is also on, restart Binding from Step1.
4. Repeat Step3 for the rest units.
5. Power down all units (incl. the 1st one) in random sequence. Then power up all units in random sequence. So far Binding is done. If in doubt, repeat the entire procedure.

B. Order for Binding LISTENER units

LISTENER units can be added to existing Yapalong group as listener-only units. Regardless of the previous grouping state, the entire group has to be bound again. The binding procedure is the same as the one for REGULAR units. In addition we need to follow the order below to bind:

1. Set 1st REGULAR into Binding mode
2. Set 2nd REGULAR into Binding mode
3. Set all LISTENERS into Binding mode one by one
4. Set the rest REGULARs into Binding mode one by one

■ **Instruction for Use**

Turn on	Hold down POWER button approx. 2 seconds until RED LED turns on. Then release button.	RED LED will remain on at a lower intensity if your unit hears other unit(s) in the same group; otherwise the RED LED will be extra bright.
Turn off	Hold down POWER button approx. 2 seconds until RED LED flashes 3 times. Then release button.	All LEDs are off in power down mode except battery charging indicator.
Volume up	Press UP button to move up one level at a time until desired level.	GREEN LED flashes once unless maximum level is reached. There are 6 volume levels.
Volume down	Press DOWN button to move down one level at a time until desired level.	GREEN LED flashes once unless minimum level is reached.
Mic mute	Press AUX button until GREEN LED flashes 3 times.	Continuous slow blinking of RED LED indicates microphone being muted. When microphone is muted, other Yapalong units cannot hear you but you can hear the others.
Mic reactivate	Press AUX button until GREEN LED flashes 3 times.	RED LED slow blinking stops. Back to normal operation.
Increase Mic sensitivity	Hold down AUX button then press UP button to move up one level at a time until desired level.	GREEN LED flashes twice unless maximum level is reached. Increase microphone sensitivity if you want to speak softly in a quiet environment. There are 5 sensitivity levels.
Decrease Mic sensitivity	Hold down AUX button then press DOWN button to move down one level at a time until desired level.	GREEN LED flashes twice unless minimum level is reached. Decrease microphone sensitivity when background noise is loud. Speak closer to the microphone to compensate.
Force Sync	Press power button momentarily forces the unit to re-establish sync with the rest of the group.	